Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please cancel claims 11-15 without prejudice or disclaimer of subject matter.

1. (previously amended) A method for determining the position of a medical instrument introduced into an object to be examined and for imaging the vicinity of the medical instrument, comprising the steps of

displaying a survey image of the object to be examined, the survey image of the object being stored in a memory and including indications of markers on the patient;

determining the position of the medical instrument within the object to be examined by a localization device that is arranged at an end zone of the medical instrument, the end zone comprising a portion of the medical instrument that is to be introduced into the object during use of the medical instrument,

acquiring image information of the vicinity of the medical instrument, at the same time as said step of determining, using an image acquisition device arranged on the medical instrument,

reproducing the position of the medical instrument in the survey image of the object to be examined on the basis of the position determined and the markers on the patient indicated in the survey image, and

displaying images of the vicinity of the object to be examined which are associated each time with the relevant position on the basis of the image information acquired.

- 2. (previously presented) The method as claimed in claim 1, wherein the localization device comprises at least one magnetic field sensor whose position is determined by an external measuring device.
- 3. (previously presented) The method as claimed in claim 1, wherein the localization device comprises at least one active or passive microcoil whose position is determined by a magnetic resonance device.
- 4. (previously presented) The method as claimed in claim 1, wherein the localization device comprises an ultrasound sensor.
- 5. (previously presented) The method as claimed in claim 1, wherein the medical instrument consists at least partly of a material that can be detected by one of an ultrasound device or a magnetic resonance device.
- 6. (previously presented) The method as claimed in claim 1, wherein the image acquisition device is an ultrasound device.
- 7. (previously presented) The method as claimed in claim 1, wherein the image acquisition device comprises an optical coherence tomography device.

- 8. (previously presented) The method as claimed in claim 1, wherein the image acquisition device comprises an MR device.
- 9. (previously presented) The method as claimed in claim 1, wherein the image acquisition device comprises an endoscope.
- 10. (previously amended) A device for determining the position of a medical instrument introduced into an object to be examined and for imaging the vicinity of the medical instrument, which device includes:

a memory including a stored image data set defining a survey image of the object to be examined including an indication of markers on the patient;

localization means for determining a position of an end zone of a medical instrument, the end zone comprising a portion of the medical instrument that is to be inserted within the object to be examined during use of the medical instrument,

a localization device being arrangeable in the end zone of the medical instrument that is to be introduced,

imaging means for the acquisition at the same time of image information concerning the vicinity of the medical instrument,

an image acquisition device arrangeable on the end zone of the medical instrument, and

data processing and display means for displaying the survey image of the object to be examined, the data processing and display means connected to the localization means for determining the position of the localization device, and displaying the position of the medical instrument in the survey image of the object to be examined based on the determined position of the localization device and the markers on the patient indicated in the survey image, and the data processing an and display means further comprising means for determining and displaying images of the vicinity of the object to be examined, wherein said images are based on the image information acquired by the image acquisition device.

- 11. (withdrawn)
- 12. (withdrawn)
- 13 (withdrawn)
- 14. (withdrawn)
- 15. (withdrawn)
- 16. (previously presented) The method as claimed in claim 1, further comprising the step of correcting the measured position data in response to cardiac motion detected by a electrocardiogram device.
- 17. (previously presented) The device as claimed in claim 10, further comprising an electrocardiogram, said data processing and display means comprises means for

correcting the determined location of the end zone in response to cardiac motion determined by the electrocardiogram.

18. (withdrawn)

- 19. (previously presented) The method as claimed in claim 1, further comprising the step of acquiring the survey image by one of magnetic resonance imaging, computed tomography, 3-D rotational X-ray and ultrasound techniques.
- 20. (previously presented) The method as claimed in claim 19, wherein said step of acquiring the survey image includes acquiring a four-dimensional image data set having a temporal resolution including image data sets at different instants during cardiovascular motion phases.